RF Exposure Report

Report No.:	SA180308C03
FCC ID:	NKR-CB1GSKVM2
Test Model:	UMC-SKVM2
Received Date:	Mar. 08, 2018
Date of Evaluation:	Jun. 15, 2018
Issued Date:	Jun. 22, 2018
Applicant:	Wistron Neweb Corporation
Address:	20 Park Avenue II (or Yuanchiu 2nd Rd), Hsinchu Science Park, Hsinchu 308, Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)
FCC Registration / Designation Number:	788550 / TW0003

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA180308C03	Original Release	Jun. 22, 2018

1 Certificate of Conformity

Product:	LTE CAT M1 communication board
Brand:	WNC
Test Model:	UMC-SKVM2
Sample Status:	Identicial Prototype
Applicant:	Wistron Neweb Corporation
Date of Evaluation:	Jun. 15, 2018
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Evonne Liu , **Date:** Jun. 22, 2018

Evonne Liu / Specialist

Approved by : , **Date:** Jun. 22, 2018

Dylan Chiou / Project Engineer

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

2.4 Calculation Result Of Maximum Conducted Power

Band	Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
LTE Band 13	A	25.7	2.74	20	0.139	0.52
	B	25.7	1.66	20	0.108	0.52
Zigbee	-	20	4	20	0.050	1.00

--- END ---